

High Purity De-Ionization Resin

Mixed Bed Resin

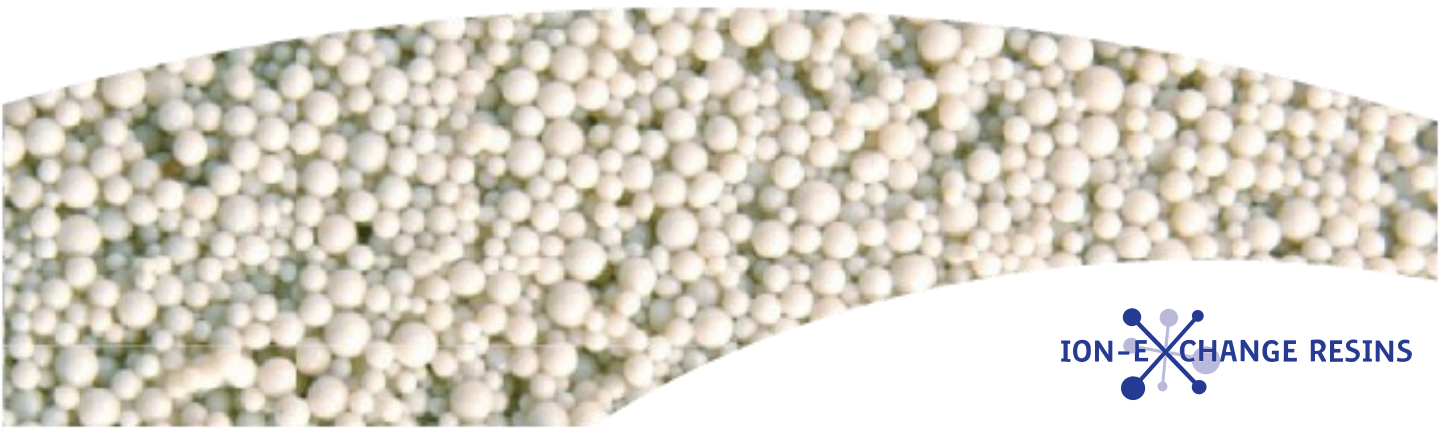
DOSHION DMB 13 S is a ready to use mixed bed resin, specifically designed and manufactured for use in mixed bed system for optical electronics semi conductor devices integrated circuit step after De-Ionization systems for production of ultra high purity water.

DOSHION DMB 13 S is a premixed resin product composed of an equivalent mixture of high capacity, fully regenerated strong acid and strong base gel type ion exchange resins. The resin mixture exhibits no clumping. The physicochemical properties of resin are designed to produce very high purity water.

Properties		
Type of Ion Exchange Resin	Strong Acid Cation	Strong base anion type 1
Total exchange capacity eq/ltr (min.)	≥ 2.0	≥ 1.1
Moisture Content %	44-50	54-60
Particle Size (mm)	0.4-1.20	0.4-1.20
Uniformity Coefficient	≤ 1.6	≤ 1.3
H form (% of Sites)	≥ 99	
Cationic Form (min.) %	99	
OH Form (min.) %		≥ 95
CL Form (min.) %		≤ 1.0
CO3 Form (min.) %		≤ 5.0
SO4 Form (min.) %		≤ 0.1

Operating Conditions		
Feed Water Temperature	°C	15-25
Minimum bed depth	mm	900
Service flow rate	*BV/hr	30-50

Output Quality	
Resistivity	16 to 18 M Ω
Silica	< 10 ppb
Total Organic Carbon	< 25 ppb



Full Range of Ion Exchange Resins

Cation Exchange Resin	Anion Exchange Resin	Speciality Resin	DM Resin
CSA 121	GA 11	DCHR 74	DMB 13
CSA 9	GA 12	DCHR 78	
CSA 9 L	GA 13	DIRM 412	
CSA 29	ASB 108	DCR 11	
CSA 609 D	ASB 171	CWS 66 D	
CWA 63	ASB 1080 D UPS	DMB 13 S	
CWA 92 D	ASB 8020 D	CGC 1200	
CSA 309	AWB 7020 D	CMC 1900	
	AWB 7030 D	CMC 2400	
	AWB 7050 D		
	GA 711		

Full Range of Membrane Performance Chemical

RO Membrane Chemicals	UF Membrane Chemicals	EDI Membrane Chemicals	Speciality Chemicals
DCC – Bior	DCC - UFC - I	EDC - SNO - IO - 56	Doshion - 1180
DCC – Inor	DCC - UFC - O	EDC - SNO - IO - 74	Doshion - 1118
DCC - Col	DCC - UFC - C		Doshion - 3426
DCC - Stor	DCC - UFC - S		Doshion - 9711 (P)
Doshion - 51 (HS)			Doshion - 9718 (Z)
Doshion - 52 (L)			
Doshion - 53			
DoScale - 65			
Doshion - 6311 - LS			

Full Range of Pharmaceutical Polymers

Active Pharma Ingredients	Excipients	Speciality Polymers	Ready Mix & Ready to Use
Doshion P-504 (Sodium Polystyrene Sulphonate USP / EP)	Doshion P-504 (Polystyrene Resin)	Doshion P-520	Doshion P-542 AB (R)
Doshion P-548 BP (Calcium Polystyrene Sulphonate BP)	Doshion P-514	Doshion P-535	Azithromycin Taste Masked (7.5%)
Doshion P-548 JP (Calcium Polystyrene Sulphonate JP)	Doshion P-542		
Doshion P-550 (Cholestyramine Resin USP / EP)	Doshion P-542 AB		
	Doshion P-542 CP		
	Doshion P-542 D		
	Doshion P-544 C		
	Doshion P-544 R		
	Polyflash Doshion P-544 DS		
	Doshion P-544 DS (Cipro)		
	Polyflash Doshion P-544 DB		
	Polyflash Doshion P-544 D		
	Doshion P-550		
	Doshion P-551 (Polyacrilix Resin)		

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Translating Source Into Resource

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